

Minisart® 针头滤器

—— 应用于气体、液体的除颗粒、除菌过滤



■ Minisart® 针头过滤器

应用于气体、液体的除颗粒、除菌过滤



样品处理 HPLC/UHPLC/分析

为了使您的色谱柱结构完整，拥有较长的使用寿命，因此在进行HPLC或是其他色谱分析时，样品的澄清除颗粒过滤是非常重要的。

Minisart®针头过滤器由PP材质的外壳和膜组成，具有最大的化学兼容性和最小的溶出物，确保了极好的实验结果。



过滤水性液体 澄清/除菌过滤

为了得到澄清及无菌的液体，过滤是最佳的方法。它能够可靠地去除微生物、颗粒物但不会因为吸附或分解而影响溶液。为了得到最好的结果，采用MBS外壳

材质的针头过滤器具有高流速和低吸附特性，MBS外壳材质根据滤器孔径的不同采用不同颜色区分。



医疗应用及 特殊除菌应用

Minisart®针头过滤器具有较大范围的孔径，是用于液体澄清过滤的最佳产品，例如，制备医药品、缓冲液。在需要对空气及其他气体除菌、除颗粒的器皿、生物反应器、发酵罐、医疗用的管式系统

等针头过滤器是最佳的选择。很多Minisart®针头过滤器获得欧盟CE认证并且在膜材质、连接器、外壳材质均有很多选择。

Minisart® 针头过滤器选择指南

1 样品组成

水		溶剂		
所有水溶液	所有水溶液	亲水	亲水	疏水
缓冲液、蛋白质分析	组织培养基	水性溶液/乳化剂	溶剂混合物	溶剂/气体/酸/碱
SFCA	PES	RC	NY	PTFE
Surfactant-Free	Polyethersulfone	Regenerated	Polyamide, Nylon	Polytetrafluoroethylene
Cellulose Acetate		Cellulose		

2 样品体积

4mm(最大1ml)



0.1-1 ml

15mm(最大15ml)



0.5-15 ml

25-28mm(最大100ml)



5-100 ml

3 孔径

除菌		样品处理、澄清、除颗粒					预过滤	
0.1 μm	0.2 μm	0.45 μm	0.65 μm	0.8 μm	1.2 μm	5 μm	GF(glass fibre)	
Small Bacteria	UHPCL, etc. (Columns)	HPLC, etc. (Columns)	Particles Yeast Cells	Particles Yeast Cells	Particles Yeast Cells	Large Particles Rubber Grit Cells	Glass Prefilter Glass + Membrane High Particle-laden Samples	
Mycoplasma Colloids > 0.1	< 3 μm Particles)	> 3 μm Particles)			Platelets			

应用

过滤类型	优先选择	备选
层析样品处理	RC	PTFE NY
有机溶剂	PTFE NY	NY
蛋白质分析、生物制品缓冲液	SFCA	RC PES
组织培养基	PES	SFCA RC
高微粒样品, 有机溶剂	GF NY	--
高微粒样品, 水溶液	GF SFCA	GF NY

pH 1-14: PTFE | GF, pH 3-14: RC | NY | PTFE | GF, pH 3-12: RC | PES | NY | PTFE | GF,
pH 4-8: SFCA | RC | PES | NY | PTFE | GF*

* 兼容性试验测试条件: 20℃, 接触24小时

分析样品处理

能够可靠的从样品中去掉颗粒和微生物，有效保护您的色谱柱和仪器



Minisart® 特点

- 一定孔径的滤膜具有15mm、25mm两种直径
- 4mm，颜色区分的包装
- 低吸附
- 最大的化学兼容性
- 最小的溶出物
- 高流速
- 低截留体积
- 100%完整性控制
- 双向使用
- 经鉴定的质量

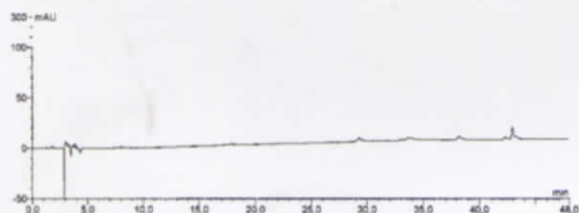
关键参数

直径	孔径	膜材质	外壳材质	出口类型	截留体积	过滤面积
25 mm	0.2 0.45 μm	RC PTFE NY	PP*	Male Luer Slip	100-200 μl**	4.8 cm ²
15 mm	0.2 0.45 μm	RC PTFE NY	PP*	Male Luer Slip Male Spike	30-100 μl**	1.7 cm ²
4 mm	0.2 0.45 μm	RC PTFE	PP*	Male Luer Slip	5-10 μl**	0.07 cm ²
GF Prefilter	1.2+0.2 0.45	GF+NY	PP*	Male Luer Slip	250-500 μl**	4.8 cm ²

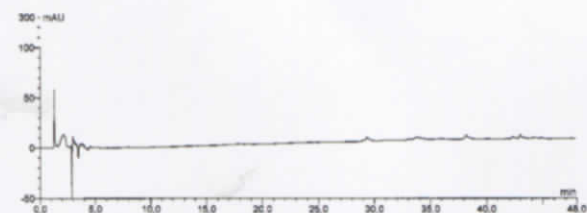
* PP = Polypropylene **Hold-up volume after air purge. Volumes can vary depending on membrane and liquid used.

HPLC 鉴定

Methanol



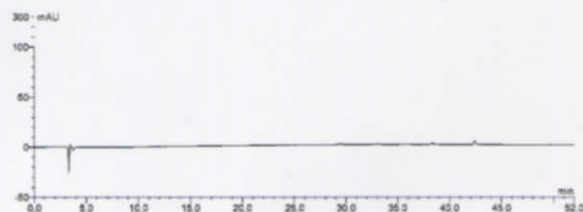
Filtrate Methanol



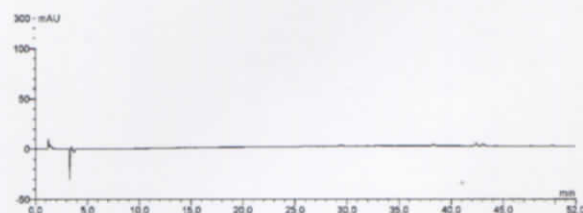
Methanol / Filtrate Methanol:

Channel: UV_VIS_2 R un Time (min.): 58.00
Wavelength: 214 nm Injection Volume: 100.0
Bandwidth: 1

Acetonitrile



Filtrate Acetonitrile



Acetonitrile / Filtrate Acetonitrile:

Channel: UV_VIS_4 R un Time (min.): 58.00
Wavelength: 280 nm Injection Volume: 100.0
Bandwidth: 1

*Minisart® used with methanol/water and acetonitrile/water did not show any artifacts or interference peaks in the range of 200-300 nm.

Minisart® 针头滤器 - 色谱样品处理

能够可靠的从样品中去除颗粒和微生物, 有效保护您的色谱柱和仪器

订购信息

直径	膜材质	外壳材质	孔径	出口类型	颜色	灭菌	Qty/Pk	产品编号
Minisart® RC (Regenerated Cellulose)								
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17764-----ACK
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17764-----K
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	200	17764-----S
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17764-----Q
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17765-----K
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	200	17765-----S
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17765-----Q
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17761-----ACK
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17761-----K
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17761-----Q
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	1000	17761-----R
15 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17762-----K
15 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17762-----Q
4 mm	RC	PP	0.2 µm	Male Luer Slip	Blue Tray	No	50	17821-----K
4 mm	RC	PP	0.2 µm	Male Luer Slip	Blue Tray	No	500	17821-----Q
4 mm	RC	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	50	17822-----K
4 mm	RC	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	500	17822-----Q
Minisart® SRP (Hydrophobic PTFE)								
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17575-----ACK
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17575-----K
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	200	17575-----S
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17575-----Q
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17576-----K
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	200	17576-----S
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17576-----Q
15 mm	PTFE	PP	0.2 µm	Male Spike	White, Printed	No	50	17558-----K
15 mm	PTFE	PP	0.2 µm	Male Spike	White, Printed	No	500	17558-----Q
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17573-----ACK
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17573-----K
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17573-----Q
15 mm	PTFE	PP	0.45 µm	Male Spike	White, Printed	No	50	17559-----K
15 mm	PTFE	PP	0.45 µm	Male Spike	White, Printed	No	500	17559-----Q
15 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17574-----K
15 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17574-----Q
4 mm	PTFE	PP	0.2 µm	Male Luer Slip	Blue Tray	No	500	17844-----Q
4 mm	PTFE	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	50	17820-----K
4 mm	PTFE	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	500	17820-----Q

直径	膜材质	外壳材质	孔径	出口类型	颜色	灭菌	Qty/Pk	产品编号
Minisart® NY (Nylon) & NY25 Plus (Glass Fiber 1.2 µm + Nylon)								
25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17845-----ACK
25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17845-----Q
25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	1000	17845-----R
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	Yes	50	17846-----ACK
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17846-----Q
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	1000	17846-----R
15 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1776B-----K
15 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	1776B-----Q
15 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	1776C-----K
15 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	1776C-----Q
25 mm	Nylon+GF	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1784B-----K
25 mm	Nylon+GF	PP	0.2 µm	Male Luer Slip	white, printed	No	500	1784B-----Q
25 mm	Nylon+GF	PP	0.45 µm	Male Luer Slip	white, printed	No	50	1784C-----K
25 mm	Nylon+GF	PP	0.45 µm	Male Luer Slip	white, printed	No	500	1784C-----Q

* Sterile Minisarts are individually packaged. If not stated otherwise, Minisarts have been sterilized by ethylene oxide. Minisarts NOT presterilized: RC, PTFE and Nylon can be sterilized by autoclaving at 121° C for 30 min/or by using ethylene oxide (EO).

□ 技术参数

Minisart® RC, Minisart® SRP, Minisart® NY, 4 mm, 15 mm and 25 mm 膜直径的参数表

应用限制	最大操作压4.5 bar 65 psi
外壳材质耐压	6 bar 87 psi
最高温度	高压蒸汽灭菌 121°C, 30 min
起泡点	水测试最小值(RC): > 3.2 bar > 47 psi (0.2 µm), > 2.0 bar > 29 psi (0.45 µm) 异丙醇测试最小值(SRP): > 1.4 bar > 20 psi (0.2 µm), > 0.9 bar > 13 psi (0.45 µm) 水测试最小值(NY): > 3.0 bar > 44 psi (0.2 µm), > 2.0 bar > 29 psi (0.45 µm)
过滤速度, 4mm	水测试, 3 bar压力 - RC: 0.5 ml/min (0.2 µm), 1.5 ml/min (0.45 µm) 甲醇测试, 1 bar压力 - RC: 1.5 ml/min (0.2 µm), 3.0 ml/min (0.45 µm); SRP: 4.5 ml/min (0.45 µm) 空气测试, 1 bar压力 - SRP: 60 ml/min (0.45 µm)
过滤速度, 15mm	水测试, 1 bar压力 - RC: 10 ml/min (0.2 µm), 30 ml/min (0.45 µm); NY: 20 ml/min (0.2 µm), 40 ml/min (0.45 µm) 甲醇测试, 1 bar压力 - RC: 55 ml/min (0.2 µm), 105 ml/min (0.45 µm); SRP: 55 ml/min (0.2 µm), 150 ml/min (0.45 µm) 空气测试, 1 bar压力 - SRP: 0.5 l/min (0.2 µm), 1.1 l/min (0.45 µm)
过滤速度, 25mm	水测试, 1 bar压力 - RC: 60 ml/min (0.2 µm), 100 ml/min (0.45 µm); NY: 75 ml/min (0.2 µm), 130 ml/min (0.45 µm) 甲醇测试, 1 bar压力 - RC: 160 ml/min (0.2 µm), 325 ml/min (0.45 µm); SRP: 160 ml/min (0.2 µm), 260 ml/min (0.45 µm) 空气测试, 1 bar压力 - SRP: 1.2 l/min (0.2 µm), 1.8 l/min (0.45 µm)
疏水性 (水穿透压)	Minisart® SRP (hydrophobic PTFE) 4.0 bar (0.2 µm) or 3.0 bar (0.45 µm)

□ 过滤水溶液

能够可靠的从样品中去掉颗粒和微生物，有效保护您的色谱柱和仪器



Minisart®特点

- 不同孔径滤膜使用不同颜色区分
- 低吸附
- 高流速
- 总通量高
- 低截留体积
- 无颗粒释放
- 最小的溶出物
- 100%完整性控制
- 无PVC
- 可选预灭菌或是非灭菌包装
- 可放射性或EO消毒
- 最大的化学兼容性
- 完全认证的质量
- 双向使用

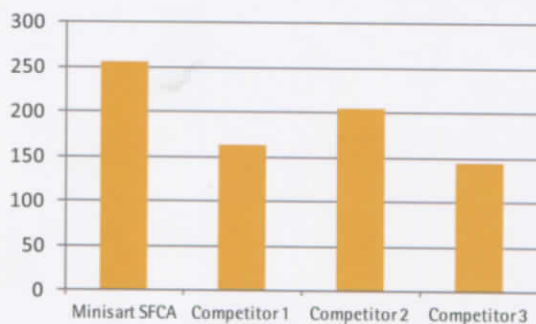
□ 关键参数

直径	孔径	膜材质	外壳材质	出口类型	截留体积	过滤面积
28 mm	0.1 μm	PES	MBS*	Male Luer Lock	100-150 μl**	6.2 cm ²
28 mm	0.2 μm	SFCA PES	MBS*	Male Luer Lock Male Luer Slip	100-150 μl**	6.2 cm ²
28 mm	0.45 μm	SFCA PES	MBS*	Male Luer Lock Male Luer Slip	100-150 μl**	6.2 cm ²
28 mm	0.65 μm	SFCA	MBS*	Male Luer Slip	100-150 μl**	6.2 cm ²
28 mm	0.8 μm	SFCA	MBS*	Male Luer Slip	100-150 μl**	6.2 cm ²
28 mm	1.2 μm	SFCA	MBS*	Male Luer Slip	100-150 μl**	6.2 cm ²
28 mm	5 μm	SFCA	MBS*	Male Luer Slip	100-150 μl**	6.2 cm ²
GF Prefilter	1.2+0.2 0.45	GF+SFCA	MBS*	Male Luer Slip	230 μl**	6.2 cm ²
GF Prefilter	1.2 μm	GF	MBS*	Male Luer Lock Male Luer Slip	200 μl**	6.2 cm ²

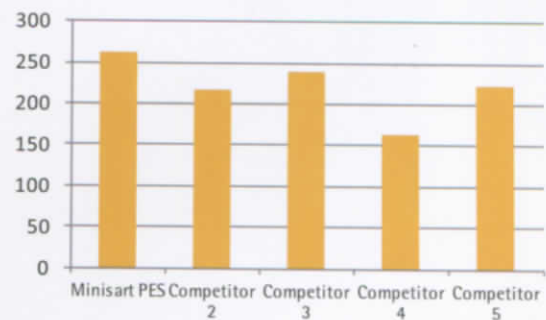
* MBS = Methacrylate butadiene styrene polymerizate

** Hold-up volume after air purge. Volumes can vary depending on membrane and liquid used.

Sartorius Advantage: Water Flow at 1 bar (15.4 psi) ml/min



0.45 μm SFCA membrane compared with CA (Cellulose Acetate) or similar hydrophilic membranes



0.45 μm PES membrane compared with other PES membranes

☐ Minisart®针头滤器 - 水溶液处理

☐ 订购信息

直径	膜材质	外壳材质	孔径	出口类型	颜色	灭菌	Qty/Pk	产品编号
Minisart® High Flow (PES – Polyethersulfone)								
28 mm	PES	MBS	0.1 µm	Male Luer Lock	Dark Red	Yes	50	16553-----K
28 mm	PES	MBS	0.2 µm	Male Luer Lock	Royal Blue	Yes#	50	16532-----GUK
28 mm	PES	MBS	0.2 µm	Male Luer Lock	Royal Blue	Yes	50	16532-----K
28 mm	PES	MBS	0.2 µm	Male Luer Slip	Royal Blue	Yes	50	16541-----K
28 mm	PES	MBS	0.2 µm	Male Luer Lock	Royal Blue	No	500	16532-----Q
28 mm	PES	MBS	0.2 µm	Male Luer Slip	Royal Blue	No	500	16541-----Q
28 mm	PES	MBS	0.45 µm	Male Luer Lock	Amber	Yes	50	16537-----K
28 mm	PES	MBS	0.45 µm	Male Luer Lock	Amber	No	500	16537-----Q
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	Yes#	50	16533-----GUK
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	Yes	50	16533-----K
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	No	500	16533-----Q
Minisart® NML (SFCA – Surfactant-free Cellulose Acetate)								
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	16534-----K
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes#	50	16534-----GUK
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	16534-----Q
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	Yes	50	17597-----K
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	No	500	17597-----Q
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	16555-----K
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes#	50	16555-----GUK
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	16555-----Q
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	Yes	50	17598-----K
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	No	500	17598-----Q
28 mm	SFCA	MBS	0.65 µm	Male Luer Slip	Pink	Yes	50	16569-----K
28 mm	SFCA	MBS	0.8 µm	Male Luer Lock	Green	Yes	50	16592-----K
28 mm	SFCA	MBS	0.8 µm	Male Luer Lock	Green	Yes#	50	16592-----GUK
28 mm	SFCA	MBS	0.8 µm	Male Luer Lock	Green	No	500	16592-----Q
28 mm	SFCA	MBS	1.2 µm	Male Luer Lock	Red	Yes	50	17593-----K
28 mm	SFCA	MBS	1.2 µm	Male Luer Lock	Red	No	500	17593-----Q
28 mm	SFCA	MBS	5 µm	Male Luer Lock	Brown	Yes	50	17594-----K
28 mm	SFCA	MBS	5 µm	Male Luer Lock	Brown	No	500	17594-----Q

直径	膜材质	外壳材质	孔径	出口类型	颜色	灭菌	Qty Pk	产品编号
Minisart® NML Plus (Glass Fiber 1.2 µm + SFCA)								
28 mm	GF+SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	17823-----K
28 mm	GF+SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	17823-----Q
28 mm	GF+SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	17829-----K
28 mm	GF+SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	17829-----Q
28 mm	GF+SFCA	MBS	1.2 µm	Male Luer Loc	Red	No	500	17825-----Q
28 mm	GF	MBS	1.2 µm	Male Luer Lock	White	No	50	17824-----K
28 mm	GF	MBS	1.2 µm	Male Luer Lock	White	No	500	17824-----Q
28 mm	GF	MBS	1.2 µm	Male Luer Slip	White	No	500	17856-----Q

* Sterilized Minisarts are individually packaged. If not stated otherwise, Minisarts are sterilized by ethylene oxide.

#-Mark indicates sterilization by gamma irradiation.

Minisarts NOT presterilized: PES, SFCA, GF+SFCA and GF can be sterilized by ethylene oxide or gamma irradiation.

您想要过滤溶剂、酸、碱溶液吗？

您需要过滤小体积样品吗？

你想要使用PP材质的外壳和其他种类膜材料吗？

- 请查阅 Minisart® RC, Minisart® NY 和 Minisart® SRP, 具有最好的化学兼容性, 具有4mm、15mm直径

技术参数

Specifications for Minisart® High Flow, Minisart® NML, Minisart® NML Plus

应用限制	最大操作压4.5 bar 65 psi
外壳材质耐压	6 bar 87 psi
最高温度	50°C
起泡点	水测试最小值 (> 5 bar > 73 psi (0.1 µm), > 3.2 bar > 46 psi (0.2 µm), > 2.0 bar > 29 psi (0.45 µm), > 1.3 bar > 19 psi (0.65 µm), > 0.8 bar > 12 psi (0.8 µm), > 0.7 bar > 10 psi (1.2 µm), > 0.4 bar > 6 psi (5 µm), > 0.5 bar > 7 psi (Minisart® GF)
过滤速度	水测试, 1 bar/14.5 psi, 30 ml/min (0.1 µm), 60 ml/min (0.2 µm), 160 ml/min (0.45 µm), 250 ml (0.65 µm), 350 ml/min (0.8 µm), 400 ml/min (1.2 µm), 500 ml/min (5 µm), 450 ml/min (Minisart® GF)
细胞毒性	对人肺细胞MRC-5无抑制

□ 医疗应用—特殊应用

Make your choice from a broad range of pore sizes, materials and formats



Minisart®特点

- 完全认证的质量
- 充分验证
- 100%完整性控制
- 使用前后的完整性测试
- 低吸附
- 最小的溶出物
- 无颗粒释放
- 无PVC
- 可选预灭菌或是非灭菌包装
- 可放射性或EO消毒
- CE认证
- 多种规格的进口连接
- 多种规格的出口连接
- 双向使用

□ 关键参数

直径	孔径	膜材质	外壳材质	出口类型	截留体积	过滤面积
28 mm	0.2 0.45 μm	SFCA	MBS*	Male Luer Lock Male Luer Slip	100-150 μl***	6.2 cm ²
28 mm	5 μm	SFCA	MBS*	Male Luer Lock	100-150 μl***	6.2 cm ²
28 mm	0.1 μm	PES	MBS*	Male Luer Lock	100-150 μl***	6.2 cm ²
26 mm	0.2 1 μm	PTFE	MBS*	Male Luer Lock Male Luer Slip	100-150 μl***	5.3 cm ²
26 mm	0.45 μm	Dome+PTFE	MBS*	Male Luer Slip (inlet and outlet)	100-150 μl***	5.3 cm ²
25 mm	0.2 μm	PTFE	PP**	Male Luer Slip Tube Connection	100-200 μl***	4.8 cm ²
15 mm	0.2 μm	PTFE	MBS*	Male Luer Slip Slip + Needle	100 μl***	1.7 cm ²

* MBS = Methacrylate butadiene styrene polymerizate

** PP = Polypropylene

*** Hold-up volume after air purge. Volumes can vary depending on membrane and liquid used.



Biocompatibility Certificate Minisart® HY



Biocompatibility Certificate Minisart® NML



Declaration of Conformity Minisart®

Minisart®针头过滤器 - 特殊应用

订购信息

直径	膜材质	外壳材质	孔径	出口类型	颜色	灭菌	Qty/Pk	产品编号	CE认证
Minisart® NML (SFCA - Cellulose Acetate) Aqueous Filtration									
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	16534-----K	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes#	50	16534-----GUK	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	16534-----Q	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	Yes	50	17597-----K	CE-marked
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	No	500	17597-----Q	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	16555-----K	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes#	50	16555-----GUK	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	16555-----Q	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	Yes	50	17598-----K	CE-marked
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	No	500	17598-----Q	CE-marked
28 mm	SFCA	MBS	5 µm	Male Luer Lock	Brown	Yes	50	17594-----K	
Minisart® Opthalsart (SFCA - Cellulose Acetate) Aqueous Filtration									
28 mm	Opthalsart	MBS	0.2 µm	Male Luer Slip	Pink	Yes	50	17528-----K	CE-marked
Minisart® High Flow (PES - Polyethersulfone) Aqueous Filtration									
28 mm	PES	MBS	0.1 µm	Male Luer Lock	Dark Red	Yes	50	16553-----K	
Minisart® (PES - Polyethersulfone) Aqueous Filtration									
15 mm	PES	PP	0.2 µm	Male Luer Lock	White	Yes	50	1776D-----ACK	
Minisart® Air (Hydrophobic PTFE) Venting									
15 mm	PTFE	MBS	0.2 µm	Male Luer Slip	Yellow	No	500	1751A-----Q	
15 mm	PTFE	MBS	0.2 µm	Male Luer Slip + Needle	Yellow	Yes#	50	16596-----HNK	
Minisart® HY (hydrophobic PTFE) CE-marked Venting & Gas Filtration									
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear	Yes	50	16596-----HYK	CE-marked
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear	No	500	16596-----HYQ	CE-marked
26 mm	PTFE	MBS	0.2 µm	Male Luer Locka	Clear	No	500	16599-----HYQ	CE-marked
26 mm	PTFE	MBS	0.2 µm	Male Luer Slip	Clear	No	500	17595-----HYQ	
26 mm	PTFE	MBS	0.2 µm	Tube Connectorsb	Clear	No	500	40078-----Q	
26 mm	PTFE	MBS	1 µm	Male Luer Lock	Clear	No	500	1659A-----HYQ	
26 mm	PTFE	MBS	1 µm	Male Luer Slipa	Clear	No	500	1659B-----HYQ	

直径	膜材质	外壳材质	孔径	出口类型	颜色	灭菌	Qty/Pk	产品编号	CE认证
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Minisart® Acticosart with Dome Reservoir + Hydrophobic PTFE Venting & Ultracleaning of Gases

26 mm	empty reservoir	MBS	0.45 µm	Tube Connectors ^b	Clear	No	500	40080-----Q	
26 mm	active carbon	MBS	0.45 µm	Male Luer Slip	Blue	No	500	17840-----Q	
26 mm	active carbon	MBS	0.2 µm	Male Luer Slip	Blue	No	500	1784A-----Q	

Minisart® SRP (Hydrophobic PTFE) CE-marked Venting & Gas Filtration

25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17575-----ACK	CE-marked
25 mm	PTFE	PP	0.2 µm	Hose Barb	White	No	500	1757A-----Q	

* Sterilized Minisarts are individually packaged. If not stated otherwise, Minisarts are sterilized by ethylene oxide.

#-mark indicates sterilization by gamma irradiation

Minisarts NOT presterilized: SFCA can be sterilized by ethylene oxide or gamma irradiation. PTFE can be sterilized by ethylene oxide.

^a Connector inlet: Male Luer slip (all other Minisarts have female luer lock inlets)

^b Tube connectors, inlet and outlet, 5 mm diameter

您需要应用更多的膜孔径吗?

你需要使用更多的膜材料吗?

- 请查阅Minisart® NML

具有0.65、0.8、1.2µm 孔径

可使用PES膜

您想要过滤溶剂、酸、碱溶液吗?

您需要过滤小体积样品吗?

你想要使用PP材质的外壳和其他种类膜材料吗?

- 请查阅 Minisart® RC, Minisart® NY 和 Minisart® SRP, 具有最好的化学兼容性, 具有4mm、15mm直径

□ 技术参数

Specifications for Minisart® Acticosart, Minisart® Air, Minisart® HY, Minisart® Opthalsart

(Specifications for Minisarts® High Flow, NML, NML Plus, PES and SRP please see on pages 58 and 61)

应用限制	最大操作压Acticosart 1/14.5; Air 1.5/21.8; HY+Opthalsart 4.5 bar 65 psi
外壳材质耐压	6 bar 87 psi
最高温度	50°C
起泡点	水测试最小值 (Opthalsart): > 3.2 bar > 46 psi (0.2 µm) IPA (Air; HY)测试最小值: > 1.4 bar > 20.3 psi (0.2 µm), > 0.9 bar > 13.1 psi (0.45 µm) Acticosart: BP not determined
过滤速度	Opthalsart: 60 ml/min for water at 1 bar 14.5 psi Air: 1.1 l/min (0.2 µm) for air at 0.1 bar 1.5psi HY: 1.4 l/min (0.2 µm), 2.3 l/min (0.45 µm) for air at 0.1 bar 1.5 psi Acticosart: 2.3 l/min (0.45 µm) for air at 0.1 bar 1.5 psi
细胞毒性	对人肺细胞MRC-5及L-929 (Opthalsart)无抑制

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2013 年 3 月印制